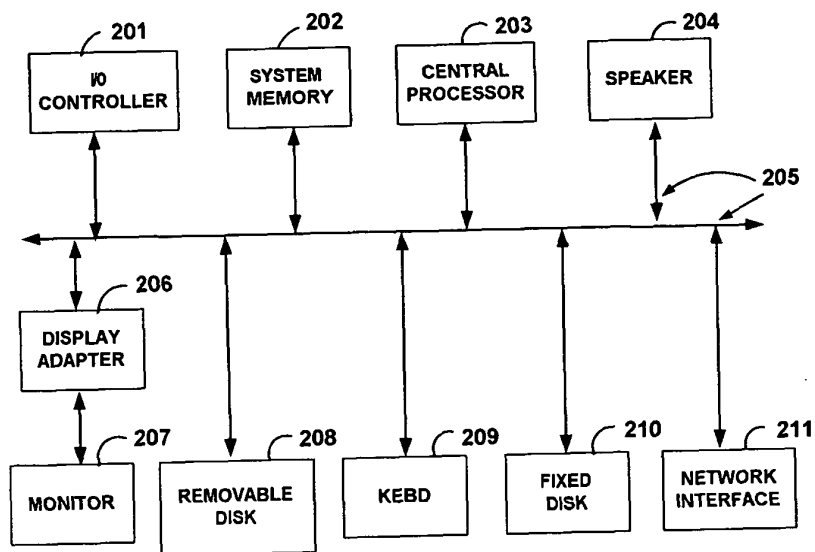


Figure 1



**Figure 2**

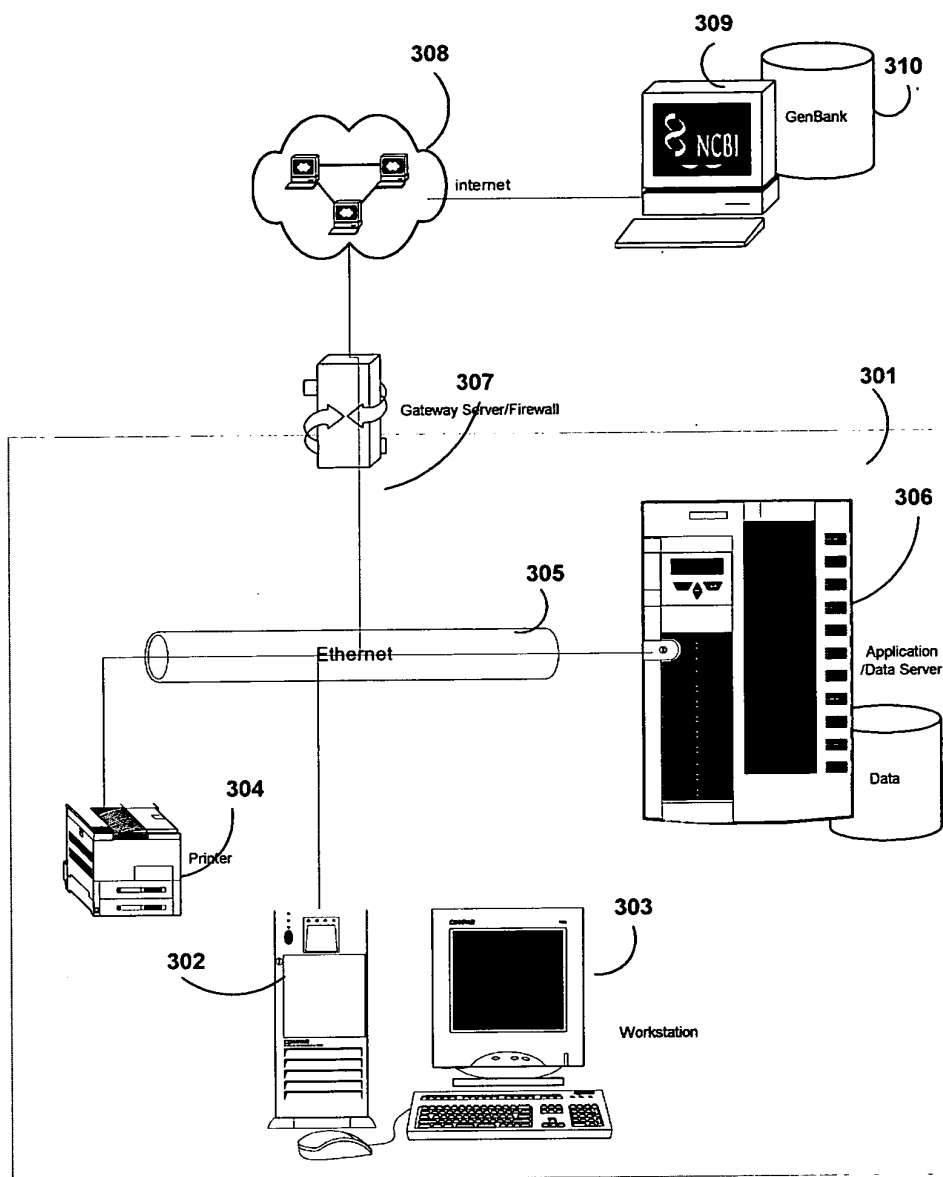


FIGURE 3

09683264-120501-1928960

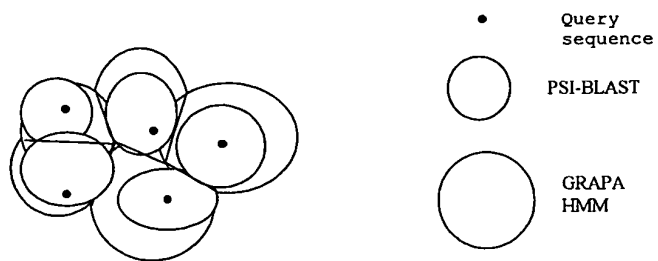
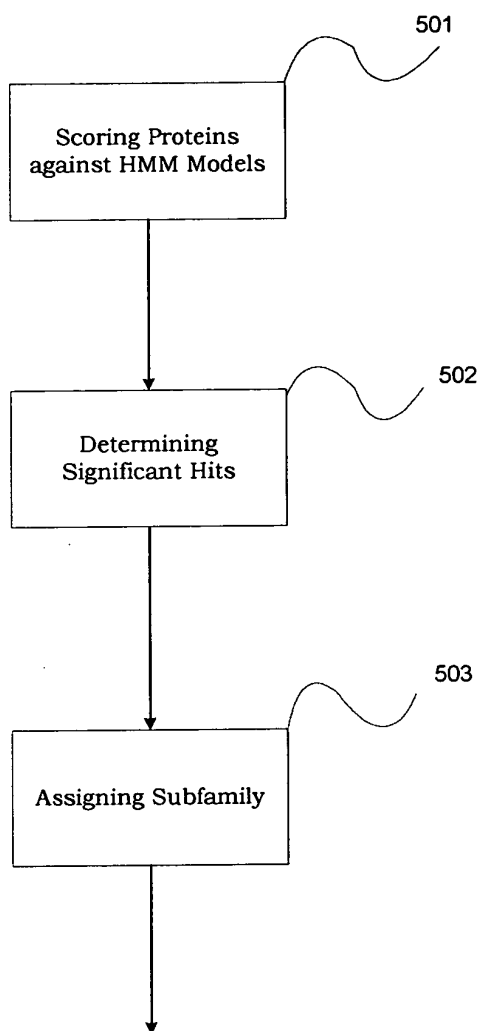
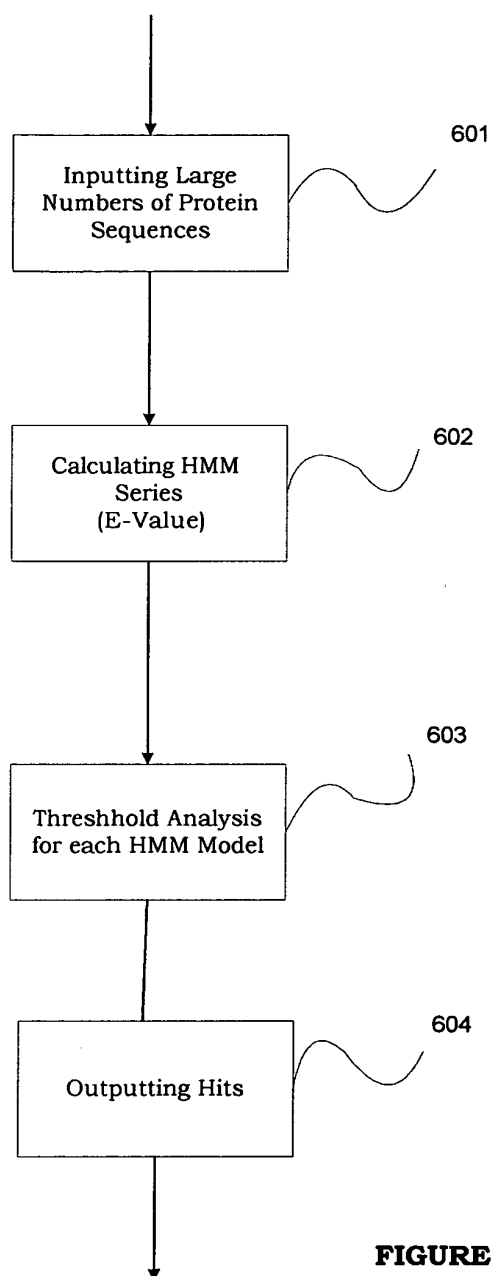


FIGURE 4

09683264-120501



**FIGURE 5**



**FIGURE 6**

09683264-4923960

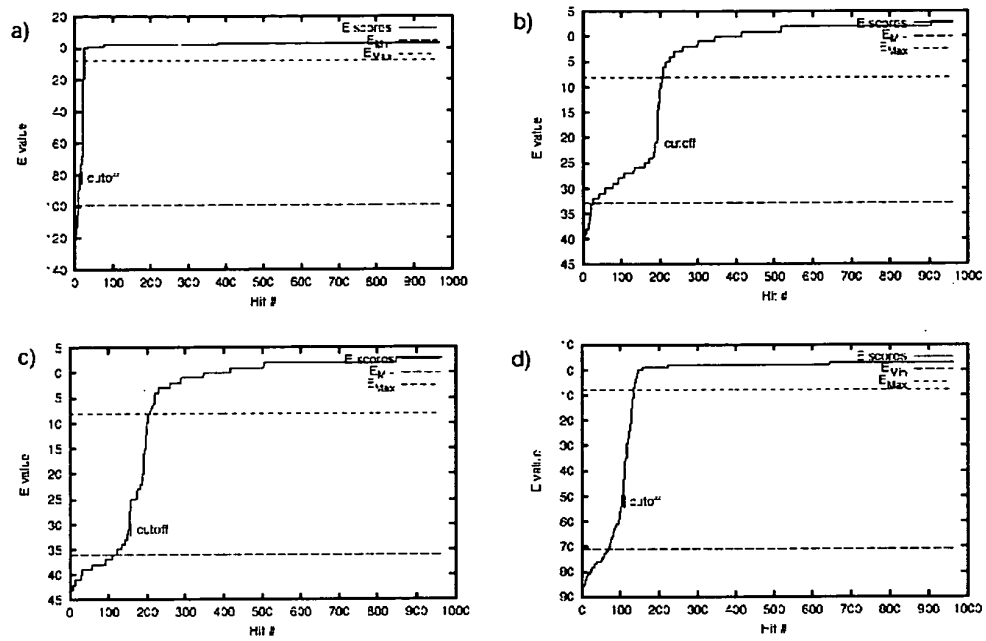
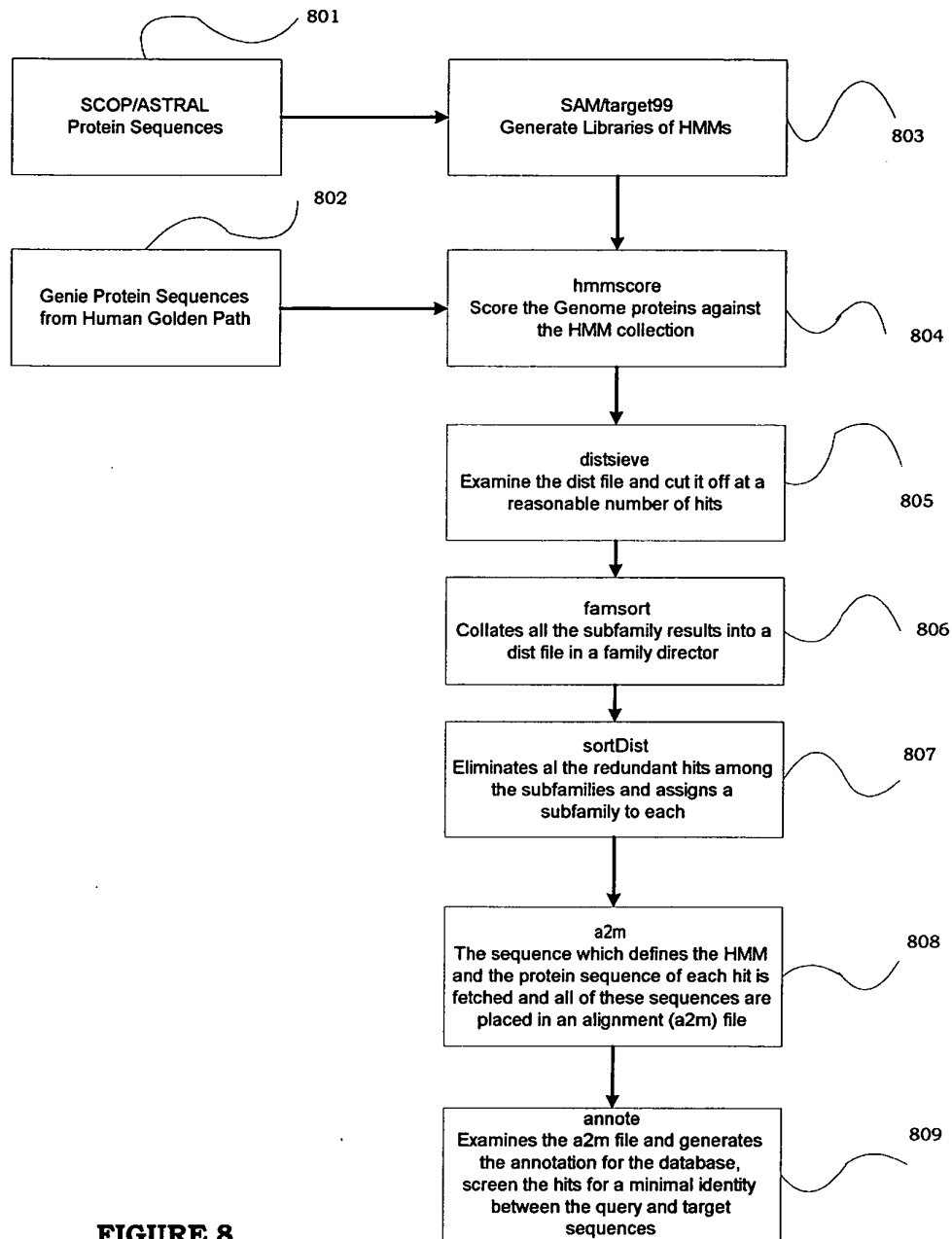


FIGURE 7



**FIGURE 8**



Alignment 1:

```

1>GRAPAHIT1 1 LLQDSLRLKDYRQCFCESDVALNEAVQQMVNSGEAAAKEEWVATVTQLL
2>lvhr 1 SVQDLNDLLSDGSGCYSLPSQPCNE VTPRIYVGNASVAQD IPKLQKL

1>GRAPAHIT1 51 MGIEQALSADSSGSILKVSSSTTGLVRLTNNLIQVIDCSMAVQEEAKEPH
2>lvhr 51 GITHVLNAAEGRSFMHVNTNAN

1>GRAPAHIT1 101 VSSVLPWIIHRIIWQEEDTFHSLCHQQQLQNPAEEGMSETPMLPSSMLL
2>lvhr 101 FYK DSGIT

1>GRAPAHIT1 151 LNTAHEYLGRRSWCCNSD GALLRFYVRVLQKELAASTSEDTHPYKEELET
2>lvhr 151 YLGIKA NDTQEFN

1>GRAPAHIT1 201 ALEQCFYCLYSFSPKSKKARYLEEHSQQVVDLIWEDALFMFEYFKPKTLP
2>lvhr 201 LSAYFERAA

1>GRAPAHIT1 251 EFDSYKSTSVSADLANLLKRIATIVPRTERPALSLDKVSAYIEGTSTVEP
2>lvhr 251 DF IDQALAQKNGRVL VH

1>GRAPAHIT1 301 CLPEGADPPSPVNNELYLLADYHFNKEQSKAIKFYMHDIICPNRFD
2>lvhr 301 C REGYSRSPTLV IAYLMMR QKMDVKSALSIVRQNREIGN DG

1>GRAPAHIT1 351 WAGMALARASRIQDKLNSNE LKS
2>lvhr 351 F LAQLCQLNDRLAKEGKLKP

Alignment 2:
1a17 PPADGALKRAEELKTQAN-----DYFKAKDYENAIKFYSQAIE
GRAPAHIT2 PLCKQALEDLKTSBGHDHPDVATMLNIALVYRDQNKYKEAAHLLNDALA
GRAPAHIT3 KDWKALDAFSAVQDPHSRICFN----IGCMYTILKNMTEAEKAFTRSIN

1a17 L-----NPSNAIYYGNRSLAYLRTECYGYALGDATR-AIELDKKYIK
GRAPAHIT2 IREKTLGKDHPAVALNNLAVLYGKRGKYKEAPLCKR-ALEIREKVLG
GRAPAHIT3 R-----DKHLAVAYFQRGMLYYQTEKYDLAIKDLKEALIQLRGNQLI

1a17 GYYRRAASNMA-----LG-----KFRAALRDYET-----
GRAPAHIT2 KFHPDVAQLSNLALLCQNGKAEVEYYYRRALDIYATRL---GPDDP
GRAPAHIT3 DYKILGLQFKLFACEVLYNIAFMYAKKEEWKAEQALALATSMKSEPRHS

1a17 -VVVKVP-----HDKDAKMKYQECNKIVKQAF-----
GRAPAHIT2 NVAKTKNNLASCYLGKQYQDAETLYKEILTRAHEKEFGSVNGDNKPIWM
GRAPAHIT3 KIDKAMECVWKQKLYEPVVI PVGKLFPRNERQVAQLAKKDYLGKATVVAS

1a17 ---ERAIA-----GDEHKKR-----SVVDSLDESMTIEDEYS
GRAPAHIT2 HAEEREES-----KDKRRDSAPYGEYGSWKACKVDSPTVNTTLR
GRAPAHIT3 VVDQDSFSGFAPLQPQAAEPPRPKTPEIFRALEGEAHRVLFQFV

```

FIGURE 9

09683264-120501

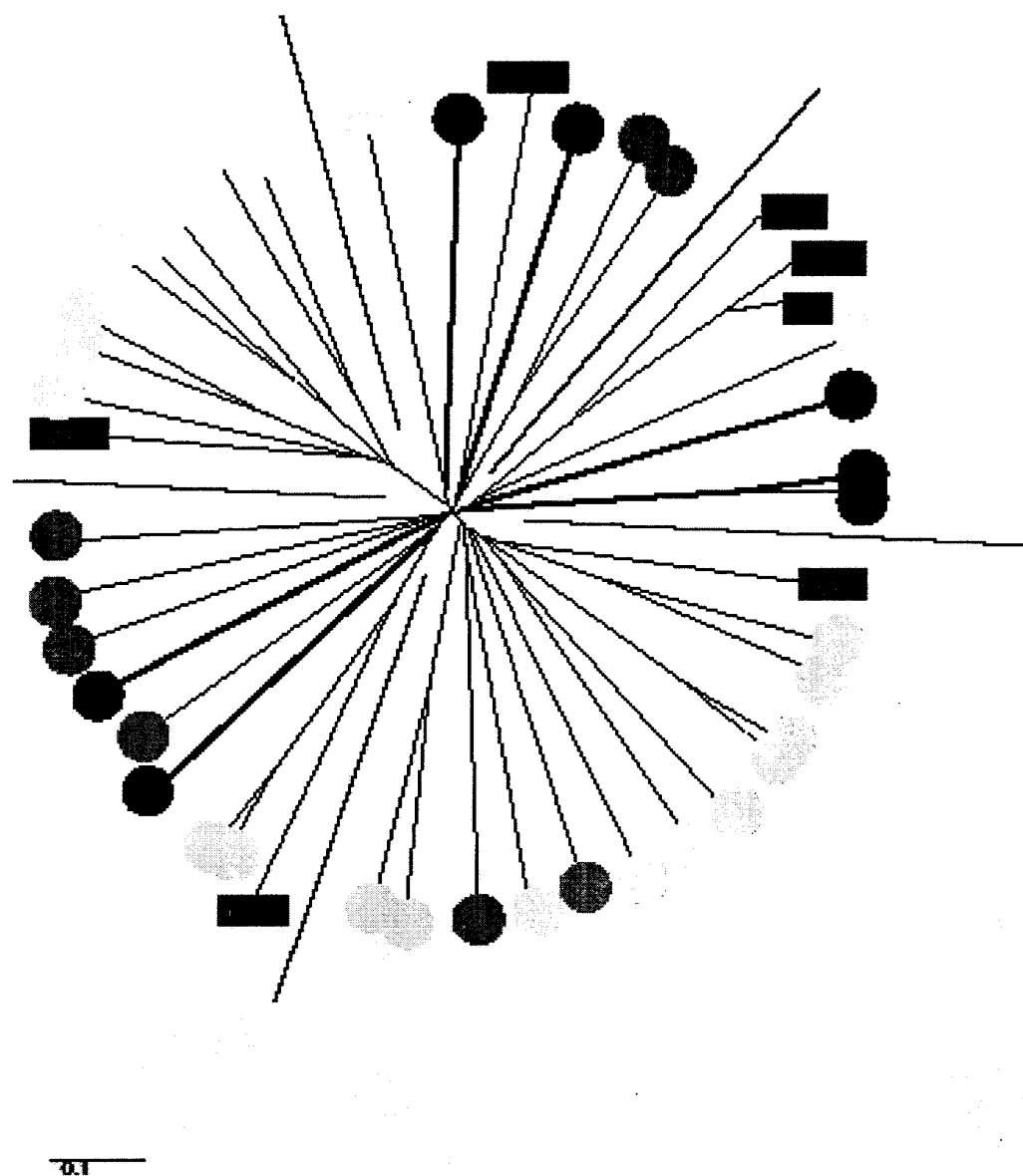


FIGURE 10